

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (Currently Amended): A recording medium type determining apparatus for determining a type of an optical disc in the reproducing state according to the presence of wobble where the tracking servo control is kept open, said apparatus comprising:

a signal generating section for generating a radial push-pull signal based on a read signal from a recording medium;

a processing section for processing said radial push-pull signal by means of autocorrelation;
and

a determining section for determining the type of said recording medium based on the data sent from said processing section by detecting the presence of the wobble.

Claim 2 (Original): The recording medium type determining apparatus according to claim 1, wherein said processing section comprises:

a filter section for reducing level fluctuation components due to radial runout of said recording medium included in said radial push-pull signal;

a binarizing section for binarizing a signal outputted from said filter section;
an autocorrelation computing section for computing an autocorrelation value for a signal sent from said binarizing section; and
a maximum value detecting section for detecting a maximum value for a signal sent from said autocorrelation computing section.

Claim 3 (Original): The recording medium type determining apparatus according to claim 2, wherein said autocorrelation computing section comprises:

a data converting section for converting a signal sent from said binarizing section to signed data;
a delay/sign-negating section for delaying said signed data by a predetermined period of time and negating the sign;
a multiplying section for multiplying said signed data by the sign-negated data sent from said delay/sign-negating section; and
an integrating section for integrating the multiplied data sent from said multiplying section.

Claim 4 (Original): The recording medium type determining apparatus according to claim 3, wherein said predetermined period of time is a half cycle of a wobble signal included in said radial-push-pull signal.

Claim 5 (Original): The recording medium type determining apparatus according to claim 2, wherein said processing section comprises a signal generating section for generating signals for controlling said autocorrelation computing section and the maximum value detecting section.

Claim 6 (Original): The recording medium type determining apparatus according to claim 2, wherein said determining section determines, by comparing the maximum value sent from said maximum value detecting section to a prespecified reference value, whether said recording medium is a recording medium dedicated to read only one or a writable one.

Claim 7 (Original): A recording medium type determining method of determining a type of a recording medium in the reproducing state according to the presence of wobble where the tracking servo control is kept open, said method comprising:

a signal generating step of generating a radial push-pull signal based on a read signal for a recording medium;

a processing step of processing said radial push-pull signal by means of autocorrelation; and

a determining step of determining the type of said recording medium based on the data sent from the processing step by detecting the presence of the wobble.

Claim 8 - 17 (Canceled).